



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 5328 Report

This analysis was run 04/28/24 on database version 559.

Pham number 5328 has 13 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Agente005\_32, Raccoon\_31, Leafus\_31
- Track 2 : Redfield\_31, Etna\_31, KingJulien\_31, GardenB\_31, Hamlet\_31, Balsa\_31, Peppino\_31, BeeBee8\_32, Stormbreaker8\_31, Schnapsidee\_31

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 1, it was called in 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agente005\_32, Balsa\_31, BeeBee8\_32, Etna\_31, GardenB\_31, Hamlet\_31, KingJulien\_31, Leafus\_31, Peppino\_31, Raccoon\_31, Redfield\_31, Schnapsidee\_31, Stormbreaker8\_31,

Genes that have the "Most Annotated" start but do not call it:

- 

Genes that do not have the "Most Annotated" start:

- 

### **Summary by start number:**

Start 1:

- Found in 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agente005\_32 (EA1), Balsa\_31 (EA1), BeeBee8\_32 (EA1), Etna\_31 (EA1), GardenB\_31 (EA1), Hamlet\_31 (EA1), KingJulien\_31 (EA1), Leafus\_31 (EA1), Peppino\_31 (EA1), Raccoon\_31 (EA1), Redfield\_31 (EA1), Schnapsidee\_31 (EA1), Stormbreaker8\_31 (EA1),

### **Summary by clusters:**

There is one cluster represented in this pham: EA1

Info for manual annotations of cluster EA1:

•Start number 1 was manually annotated 11 times for cluster EA1.

**Gene Information:**

Gene: Agente005\_32 Start: 22366, Stop: 22079, Start Num: 1

Candidate Starts for Agente005\_32:

(Start: 1 @22366 has 11 MA's), (2, 22336), (3, 22204), (4, 22159),

Gene: Balsa\_31 Start: 22208, Stop: 21921, Start Num: 1

Candidate Starts for Balsa\_31:

(Start: 1 @22208 has 11 MA's), (2, 22172), (3, 22040),

Gene: BeeBee8\_32 Start: 22375, Stop: 22088, Start Num: 1

Candidate Starts for BeeBee8\_32:

(Start: 1 @22375 has 11 MA's), (2, 22339), (3, 22207),

Gene: Etna\_31 Start: 22213, Stop: 21926, Start Num: 1

Candidate Starts for Etna\_31:

(Start: 1 @22213 has 11 MA's), (2, 22177), (3, 22045),

Gene: GardenB\_31 Start: 22211, Stop: 21924, Start Num: 1

Candidate Starts for GardenB\_31:

(Start: 1 @22211 has 11 MA's), (2, 22175), (3, 22043),

Gene: Hamlet\_31 Start: 22208, Stop: 21921, Start Num: 1

Candidate Starts for Hamlet\_31:

(Start: 1 @22208 has 11 MA's), (2, 22172), (3, 22040),

Gene: KingJulien\_31 Start: 22204, Stop: 21917, Start Num: 1

Candidate Starts for KingJulien\_31:

(Start: 1 @22204 has 11 MA's), (2, 22168), (3, 22036),

Gene: Leafus\_31 Start: 22346, Stop: 22059, Start Num: 1

Candidate Starts for Leafus\_31:

(Start: 1 @22346 has 11 MA's), (2, 22310), (3, 22178), (4, 22133),

Gene: Peppino\_31 Start: 22200, Stop: 21913, Start Num: 1

Candidate Starts for Peppino\_31:

(Start: 1 @22200 has 11 MA's), (2, 22164), (3, 22032),

Gene: Raccoon\_31 Start: 22169, Stop: 21882, Start Num: 1

Candidate Starts for Raccoon\_31:

(Start: 1 @22169 has 11 MA's), (2, 22133), (3, 22001), (4, 21956),

Gene: Redfield\_31 Start: 22207, Stop: 21920, Start Num: 1

Candidate Starts for Redfield\_31:

(Start: 1 @22207 has 11 MA's), (2, 22171), (3, 22039),

Gene: Schnapsidee\_31 Start: 22201, Stop: 21914, Start Num: 1

Candidate Starts for Schnapsidee\_31:

(Start: 1 @22201 has 11 MA's), (2, 22165), (3, 22033),

Gene: Stormbreaker8\_31 Start: 22204, Stop: 21917, Start Num: 1

Candidate Starts for Stormbreaker8\_31:

(Start: 1 @22204 has 11 MA's), (2, 22168), (3, 22036),